

Welcome to:

Project Broadsword

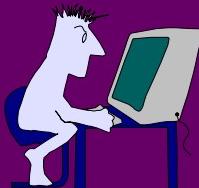
Broadsword

System Manager's Training Guide

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Administration

Overview



- System Status
 - Daemon Status
 - Set Debug Flags
 - Queue Maintenance
 - System/Log Info
- User and Group Maintenance
- System Statistics
 - Batch Jobs
 - Gatekeeper
 - WebServer
- System Configuration
 - Data Element Configuration
 - Reset System Parameters
 - Gatekeeper Configuration
 - Backside Sources (Local Plug-ins)

Administration

- System Status
- Users and Groups
- System Statistics
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Backside Sources

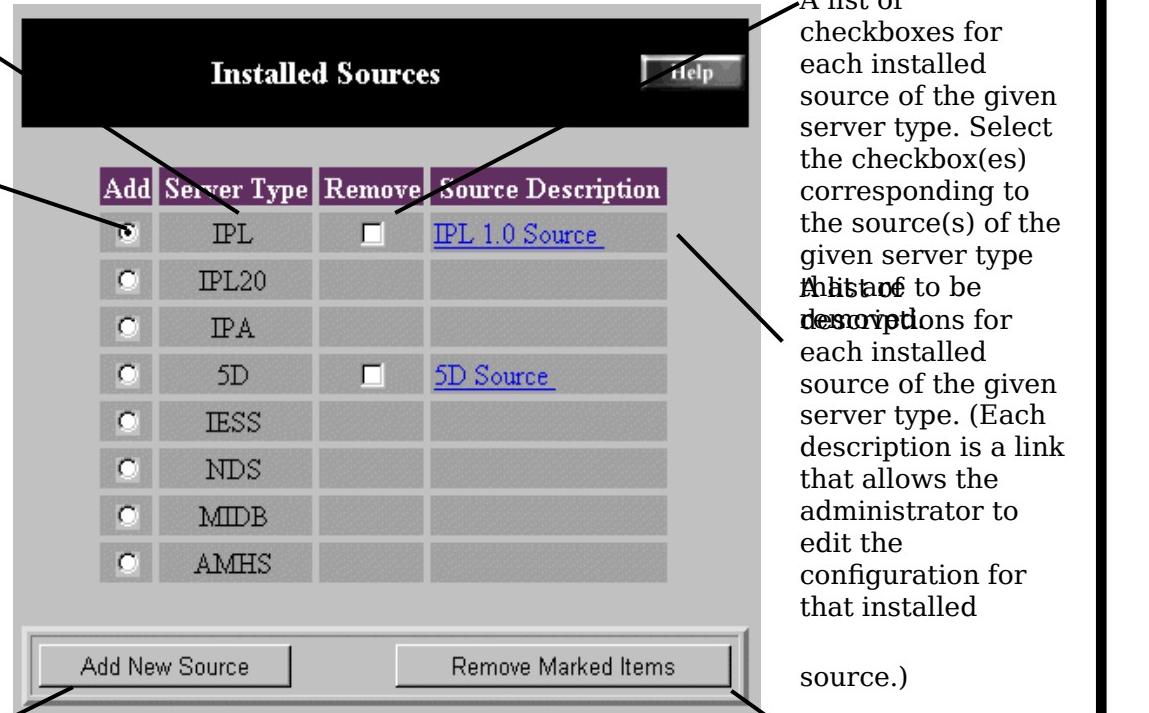
The purpose of this screen is to allow the administrator to add, remove or edit the configuration of sources that are accessible through the local

Broadsword gatekeeper.

The Installed Sources screen contains a table that displays information about the available server types and installed

The given server type to be added or removed as a

Select a new source of the indicated server type for installation.



Installed Sources			
Add	Server Type	Remove	Source Description
<input checked="" type="radio"/>	IPL	<input type="checkbox"/>	IPL 1.0 Source
<input type="radio"/>	IPL20		
<input type="radio"/>	IPA		
<input type="radio"/>	5D	<input type="checkbox"/>	5D Source
<input type="radio"/>	IESS		
<input type="radio"/>	NDS		
<input type="radio"/>	MIDB		
<input type="radio"/>	AMHS		

Add New Source **Remove Marked Items**

Adds the server type that is marked for addition

Removes all the sources that are marked for removal

The above screen illustrates how a user would make an addition to the installed source list.

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Backside Sources

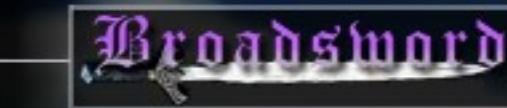
Install a new Source Continued

The *Add New IPL Source* screen is entered when the administrator clicks the *Add New Source* button on the *Installed Sources* screen after selecting to add an IPL source. The *Add New IPL Source* screen contains a table of configuration items describing the IPL source to be added.

Add New IPL Source

Help

Configuration Item	Value	Item Description
IPL Description	IPL 1.0 source	This field describes the IPL. This will appear in the preferences section of the client.
Query Max Hits	0	This field specifies the max number of hits to return for a query. If zero, then there is no limit.
IPL Host IP Address		This field specifies the IP address the ipl_plugin will use to connect to the IPL "pcr" process.
IPL TCP/IP Port	5004	This is the TCP/IP port that the ipl_plugin will use to connect to the IPL "pcr" process.
IPL Site Name		This is the site name of the IPL to query. This should match the IPL Site Name as configured in the IPL download file.
IPL Host IP Address		This is the IP address of the IPL to query. This should match the IPL IP Address as configured in the IPL download file.
IPL Order Status Port	5007	This is the port that IPL will send status messages to after a order request.
Harvest TCP/IP port	8501	This is the TCP/IP port that the Harvest daemon is using.
Format Conversion Flag	<input type="checkbox"/> N	If this field is set to Y, then Broadsword will perform all conversion/compression.
Publish Flag	<input type="checkbox"/> Y	If this flag is Y, then existence of this source will be made known to all other gatekeepers.
IPL Account	ipamngr	This is the IPL account Broadsword uses to connect to IPL.
IPL Password		This is the IPL password Broadsword uses to connect to IPL.
Initial Access Control:	<input checked="" type="radio"/> Deny All <input type="radio"/> Allow All	This denotes whether to allow or deny all users access to this source. Fine tune individual allow/deny access in User Maintenance



Training

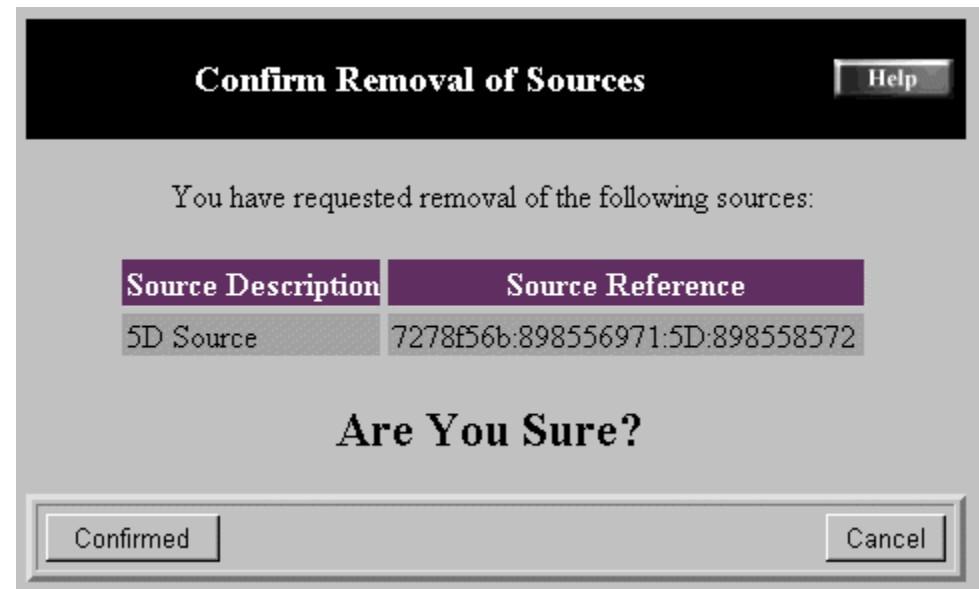
Administration

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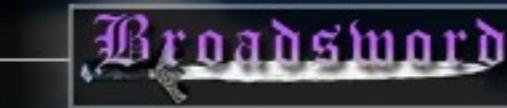


Backside Sources

Remove an Installed Source
Continued



Clicking on the *Remove Marked Items* button will bring the user to this screen, which allows the user to confirm or cancel the deletion of an installed source.



Administration

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Backside Sources

The *Edit IPL Source* screen is entered when the administrator clicks an *IPL Source Description* link from the *Installed Sources* table on the *Installed Sources* screen. The *Edit IPL Source* screen contains a table of configuration items describing the particular IPL source.

When the Publish Flag is set to "Y", ALL the other gatekeepers can see this

SYSTEM CONFIGURATION

Data Element Configuration | Reset Sys Params | Gatekeeper Config | Backside Sources | Connected Sites | Register Gatekeeper | Add Map Data

Edit IPL 1.0 at Atlas via Aleph Source Help

Configuration Item	Value	Item Description
IPL Description	IPL 1.0 at Atlas via	This field describes the IPL. This will appear in the preferences section of the client.
Query Max Hits	0	This field specifies the max number of hits to return for a query. If zero, then there is no limit.
IPL Host IP Address		This field specifies the IP address the ipl_plugin will use to connect to the IPL "pcr" process.
IPL TCP/IP Port	5004	This is the TCP/IP port that the ipl_plugin will use to connect to the IPL "pcr" process.
IPL Site Name	atlas	This is the site name of the IPL to query. This should match the IPL Site Name as configured in the IPL download file.
IPL Host IP Address		This is the IP address of the IPL to query. This should match the IPL IP Address as configured in the IPL download file.
IPL Order Status Port		This is the port that IPL will send status messages to after a order request.
Harvest TCP/IP port		This is the TCP/IP port that the Harvest daemon is using.
Format Conversion Flag	N	If this field is set to Y, then Broadsword will perform all conversion/compression.
Publish Flag	Y	If this flag is Y, then existence of this source will be made known to all other gatekeepers.
IPL Account		This is the IPL account Broadsword uses to connect to IPL.
IPL Password	*****	This is the IPL password Broadsword uses to connect to IPL.
Access Control	<input checked="" type="radio"/> Deny All <input type="radio"/> Allow All	This denotes whether to allow or deny all users access to this source. Fine tune individual allow/deny access in User Maintenance

Administration

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**Backside
Sources**

The “Access Control” configuration item determines whether the source is available by default to all users. If the “Deny All” button is chosen, all users are denied access to the source and permission to access the source must be granted on an individual basis. To allow access to every local user, but not to users outside the local gatekeeper’s domain, set the “Publish Flag” to “N” and the “Access Control”

Summary of Remote Access Controls

Access Control	Publish	Flag
	No	Yes
Deny All	The source is not known by remote gatekeepers. The source is not accessible by default to users. Local users are granted access to the source on an individual source basis through the Users and Groups function as part of the System Configuration section.	The source is known to all gatekeepers (both local and remote), but is not accessible, by default, to any user. Access to the source can be made available to individual local users, but cannot be given to users coming through a remote gatekeeper.
Allow All	The source is not known to any remote gatekeeper, but all local users have access, by default, to the source.	The source is known by all remote gatekeepers and is also, by default, accessible by all users (both local and remote).



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Gatekeeper Config

This page allows the administrator to modify various parameters of the local Gatekeeper. Several configuration items, their current (editable) values, and help text for each are presented.

Edit Gatekeeper

Help

Configuration Item	Value	Item Description
Gatekeeper Description	<input type="text" value="sun Gatekeeper"/>	This gives a human readable name to a gatekeeper (i.e. ACOM)
Gatekeeper IP Address	<input type="text" value="123.456.78.9"/>	This is the IP Address of the Gatekeeper
Gatekeeper TCP/IP Port	<input type="text" value="5500"/>	This is the TCP/IP port number the gatekeeper will wait for connections
Point Of Contact	<input type="text" value="John Gates"/>	This is the name of the person responsible for maintaining this gatekeeper. This name is also used for registration with a keymaster.
POC Phone #	<input type="text" value="(315) 330-7082"/>	This is the unclassified phone number for the POC.
POC Email	<input type="text" value="gatesj@sun.ird1.rl.af"/>	This is the email address (name@hostname) for the Point of Contact.
Organization Name	<input type="text" value="Synectics Corporation"/>	This is the organization name where this gatekeeper resides.
Country Code	<input type="text" value="US"/>	This is the 3 character country code where this gatekeeper resides.
State or Locality	<input type="text" value="NY"/>	This is the state or locality where this gatekeeper resides.
City	<input type="text" value="Rome"/>	This is the city where this gatekeeper resides.
Client Idle Timeout	<input type="text" value="30"/>	This is the time in minutes the gatekeeper waits for client activity before closing the connection

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Gatekeeper Config

Gatekeeper Config (cont)

Once the Administrator has made the necessary modifications and saved the changes he *must* restart the conan daemon.

Registered User Account	<input type="text" value="bswduser"/>	This is the name used to login to the Gatekeeper for Registered Users
Profile User Account	<input type="text" value="cdimuser"/>	This is the name used to login to the Gatekeeper by the Profile process
Alternate User Account	<input type="text" value="bswduser"/>	This is the name used to login to the Gatekeeper by remote gatekeepers during alternate delivery of a product
Gatekeeper Database Name	<input type="text" value="BswdSybase"/>	This is the name of the database the gatekeeper uses
Gatekeeper Database Account	<input type="text" value="bswd2user"/>	This is the database account the gatekeeper uses to login into the database
Registered User Password	<input type="password" value="*****"/>	This is the password used to login to the Gatekeeper for Registered Users
Profile User Password	<input type="password" value="*****"/>	This is the password used to login to the Gatekeeper by the Profile process
Alternate User Password	<input type="password" value="*****"/>	This is the password used to login to the Gatekeeper by remote gatekeepers during alternate delivery of a product.
Gatekeeper Database Password	<input type="password" value="*****"/>	This is the database password the Gatekeeper uses to login into the database

 You must restart conan after changing any values on this page
Please see the System Installation & Maintenance Guide for information on how to restart conan.

Select the field(s) of the items that require modification, enter their new value, and when complete, click the *Save* button. You may click *Reset* to revert any changes you have been making to the page and start over.

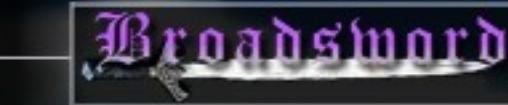
To Restart conan: As root at the unix command line input the following

```
ps -ef |grep conan
kill -9 [whatever PID conan has]
/opt/bswd2.0/client/bin/startconan
```

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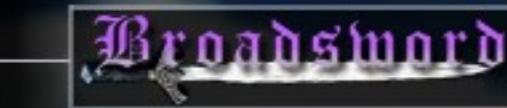


Reset Sys
Params

The *Reset Home Page Access Counter* section allows the administrator to set to zero the access counter that appears on the Broadsword login screen. This is accomplished by clicking the *Home Page Access Counter* checkbox, followed by clicking the *Execute* button that appears in the bottom button bar.



The Home Page Access Counter is displayed when a user logs in.



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Administration

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Reset Sys
Params

The *Set System Parameters* section allows the administrator to set certain system parameters. For example, the administrator can change the delay before a user's pull is automatically cancelled by the system.

In this case, that value is set to 1200 seconds.

Set System Parameters Help

NOTE: All Times are in seconds.

Parameter	Value	Description
Pull Time Out : (300 - 86400)	1200	Time Out for Pull Product Failures.

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Reset Sys
Params

The purpose of the *Set E-Mail Notification Parameters* screen is to allow the administrator to establish those parameters that affect Broadsword's standing. The minimum interval between checks is currently fixed at 30 minutes, and, in this case, the Send Mail Directory is set to /usr/lib.

Defines the frequency at which the E-Mail Notification processing is performed

Set E-Mail Notification Parameters		
Parameter	Value	Description
Minimum Interval : (Minutes)	30	Time increment for checking for new/modified products.
Send Mail Directory : (Normally /usr/lib)	/usr/lib	Directory where Send Mail daemon expects its files to be.

Execute

Reset

E-mail notification is sent via the "sendmail" command. This command is typically located in the "/usr/lib"

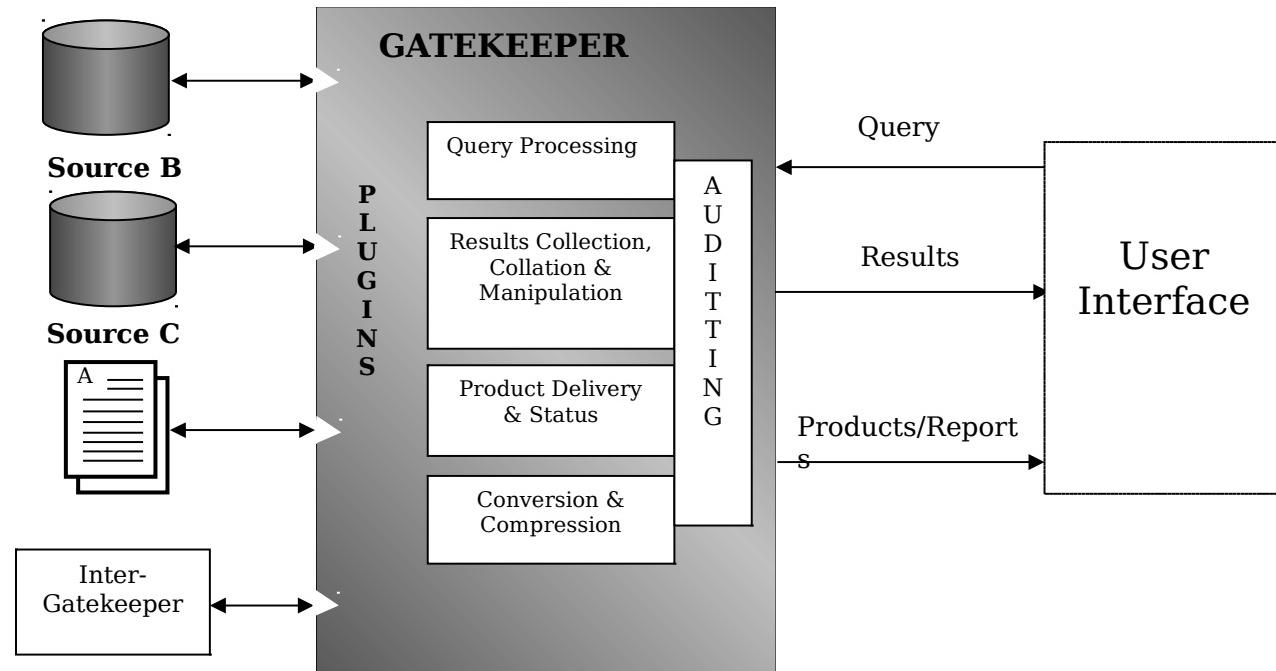
Saves the current selections directory.

Returns the selections to their previously applied values and automatically applies these changes

Architecture

e

Gatekeeper



The “Gatekeepe r” Plug-ins

- Currently Supported Plug-ins:
v2.2.7/v2.3.1
 - Air Force Weather
 - AMHS
 - AODB
 - 5D v4.0.4
 - IESS v3.0
 - Intelink Hydra
 - Intelink Meta-Search
 - IPA v1.2.3
 - IPL v1.0
 - IPL v2.0
 - MEPED
 - MIDB v2.0J
 - NDS
 - Space DB
- Products:
 - CSIL
 - IDEX

The “Gatekeep er”

Security Features

- Unitary Login
- Auditing of: Login/Logout, Query, Query Response, Product Request, Product Transfer, Admin/ISSO Access/Functions
- Support for Brokered Login (e.g., AMHS)
- User /Source Mapping
- ISSO Audit Reports

Architecture

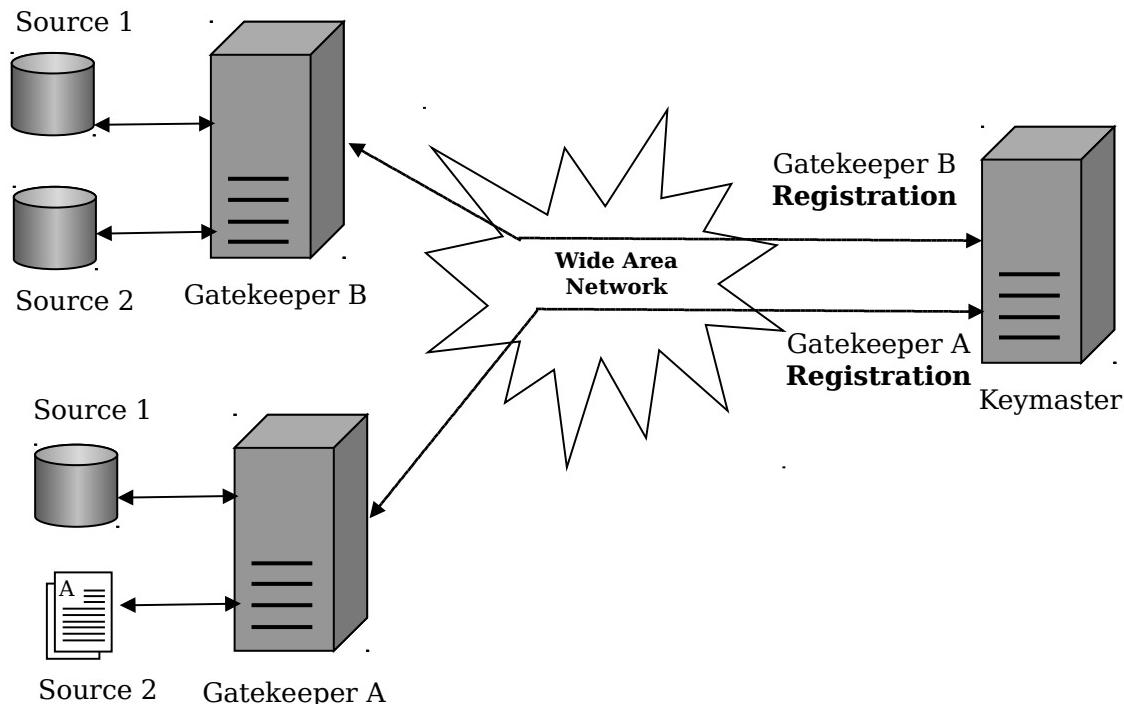
re

Inter-

Gatekeeper

The purpose of registering with the keymaster is to allow potential access to sources by all other registered gatekeepers. Each gatekeeper allows or denies gatekeepers access to each of its sources.

Unregistered gatekeepers are a standalone system, sources are not shared and no indirect sources can be accessed.



Gatekeeper to gatekeeper connectivity is established after both register with the keymaster.

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**Register
Gatekeeper**

This screen allows a gatekeeper to register with a Keystreamer, thus allowing access to remote gatekeepers and their sources.

Register Gatekeeper Help

Keystreamer IP Address	<input type="text"/>
Keystreamer Port	<input type="text"/>
Registration ID	<input type="text"/>

How to Register a Gatekeeper:

1. Contact via secure telephone, the Administrator of the Keystreamer you want to register.
2. The Keystreamer will provide the Keystreamer IP address, port number, and a one time password needed for the registration process.
3. Enter all the information required on the registration page and click on the Register button at the bottom of the page.
4. Upon successful registration, go to the Connected Sites page to allow access to the sources provided from the registration process.

Note:

1. If the registration process returns an error message, contact the Keystreamer to resolve the issue.



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Connected Sites

This screen lists the Keymasters, remote gatekeepers, and remote sources, that are connected to the assigned (local) Broadsword gatekeeper. It allows the administrator to turn on and off global access to the remote sources available after the local gatekeeper has been registered with a Keymaster.

Connected Sites		
KEYMASTER		
>Registered to 'Mars Keymaster' on (Zulu) Fri May 7 20:23:38 1999		
ALLOW ALL	GATEKEEPER	SOURCE
<input checked="" type="checkbox"/>	BSWD 2.0 Baseline Neptune Gatekeeper	...
<input checked="" type="checkbox"/>	...	IPA 1.2.3 at Moon Via Neptune Baseline
<input checked="" type="checkbox"/>	...	5D at Neptune via Neptune2.0
<input type="checkbox"/>	...	AMHS at Elara
<input checked="" type="checkbox"/>	...	IPL 1.0 at Atlas via Neptune2.0
<input type="checkbox"/>	...	NDS at Moon via Neptune2.0
<input checked="" type="checkbox"/>	...	MIDB at Hoth via Neptune2.0
<input type="checkbox"/>	...	IESS at iess0 Via Neptune2.0
<input type="checkbox"/>	...	Intelink-Hydra Source
<input type="checkbox"/>	...	Intelink-Meta Search Via Neptune
<input type="checkbox"/>	...	CSIL at Neptune Via Neptune
<input type="checkbox"/>	...	Meped Via Neptune
<input type="checkbox"/>	...	DIA CSIL-DO NOT USE FOR TESTING
<input type="checkbox"/>	...	IPL20@sun.bswd
<input type="checkbox"/>	...	Air Force Weather via Neptune
<input type="checkbox"/>	...	IPL 1.0 at Sun via Neptune
<input type="checkbox"/>	...	Keymaster Test 5D
<input type="checkbox"/>	...	IPL 2.0 Stub Server at Sun via Neptune
<input type="checkbox"/>	...	AODB at HOTH via Neptune Baseline

Submit

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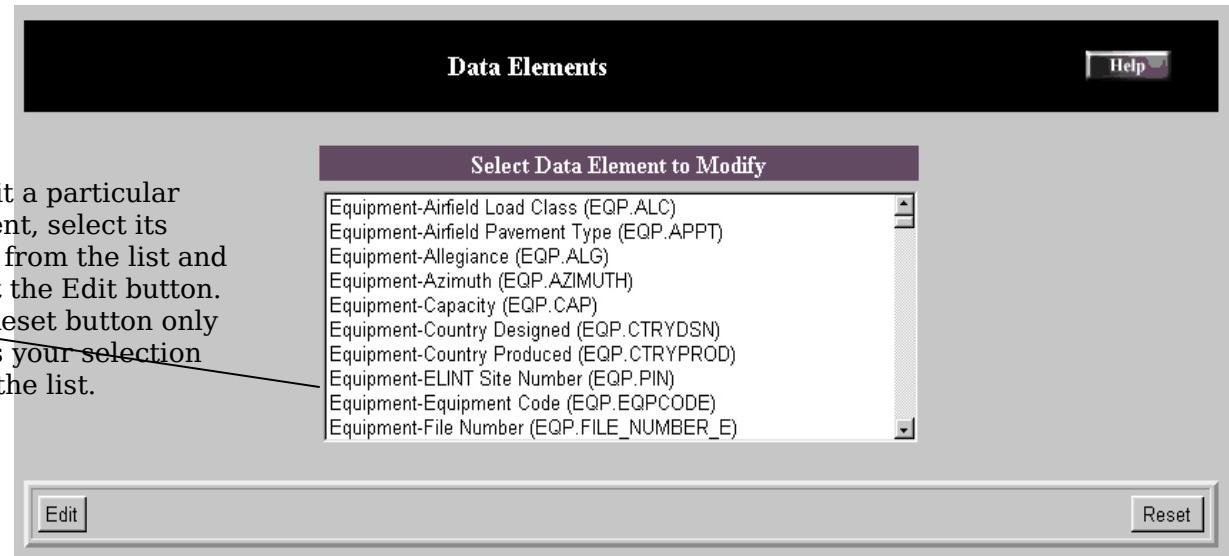


Data Element Configuration

Data Elements are all the available attributes in the Broadsword environment. The Data Element Configuration tab is used to edit some parameters for each attribute.

Initially, the page presents the administrator with a scrolled list of all available Data Elements.

To edit a particular element, select its name from the list and select the Edit button. The Reset button only ~~clears your selection~~ from the list.



The screenshot shows a software interface titled "Data Elements". Below this, a sub-section is titled "Select Data Element to Modify". A scrollable list box contains the following items:

- Equipment-Airfield Load Class (EQP.ALC)
- Equipment-Airfield Pavement Type (EQP.APPT)
- Equipment-Allegiance (EQP.ALG)
- Equipment-Azimuth (EQP.AZIMUTH)
- Equipment-Capacity (EQP.CAP)
- Equipment-Country Designed (EQP.CTRYDSN)
- Equipment-Country Produced (EQP.CTRYPROD)
- Equipment-ELINT Site Number (EQP.PIN)
- Equipment-Equipment Code (EQP.EQPCODE)
- Equipment-File Number (EQP.FILE_NUMBER_E)

At the bottom of the window are two buttons: "Edit" on the left and "Reset" on the right.

IMPORTANT NOTE: The list of data elements available is a union of the elements for each source that the administrator has, NOT the list of all sources that the site has access to. To ensure that this list is complete make sure that the administrator account has access to all available local sources.



Administration

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Data Element Configuration

After selecting an item to edit, the Edit Element page will be presented. Here you may edit certain parameters of the element, set as a Mandatory Value, and get a listing of the pre-element is PRD.ATEXT defined values.

The element attribute name.
The help text displayed when this element is selected.

Available
only if
~~Supported~~
by Rules of a data
element.

Each item is entered individually. Item help is typically definition or description.

To return to the
data element
listing.

To enter more **Each data element** may have a list of pre-defined values associated with it. These are the values the user sees in the pop-down menus. If an element has a data list defined, the data list items are the only values it can be.

When creating a list for an element that does not have a data list, the administrator should be sure to define all possible values the element can be.

Edit 'PRD.ATEXT' Element

Element Attribute	Value						
Display Name	Summary						
Help Text	<p>Text further describing the product or a...</p>						
Cataloging Mandatory Value	<input type="radio"/> Yes <input checked="" type="radio"/> No						
Data List Constraints (If Any) <table border="1"> <tr> <td>Data Type</td> <td>Character</td> </tr> <tr> <td>Minimum Length</td> <td></td> </tr> <tr> <td>Maximum Length</td> <td>4096</td> </tr> </table>		Data Type	Character	Minimum Length		Maximum Length	4096
Data Type	Character						
Minimum Length							
Maximum Length	4096						
Create a Data List with First Item: <input type="text"/>							
Help Text for New Item: <input type="text"/>							
 <p><i>You must logout and login again for any changes to take effect</i></p> <p>Please logout and log back in to check that your changes have been made.</p>							
<input type="button" value="Save (back to config page)"/> <input type="button" value="Save (back to edit page)"/> <input type="button" value="Cancel"/>							
Delete Data List Item							
Add Data List Item							

An element attribute which has a data list will offer Delete and Add rather than Create



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Add Map Data

This section allows the administrator to add additional Vector Product Format (VPF) maps to the default set of map data included in Broadsword.

The following Vmap levels are supported: vmaplv0, vmaplv1, vmaplv2, and uvmap.

SYSTEM CONFIGURATION

Data Element Configuration | Reset Sys Params | Gatekeeper Config | Backside Sources | Connected Sites | Register Gatekeeper | Add Map Data

Add Vector Map Data

Help

Location of Vector Map Data :

Vector Map Data Base Name :

Vector Map Data Library Name :

Vector Map Level :

Apply Reset

Note: Adding new VPF data is both time consuming and CPU intensive. It is recommended that this operation be performed during non-peak hours.

Administration

- System Status
- Users and Groups

The purpose of *User/Group Privileges* is to allow the administrator to add/remove a given user/group to/from having access to certain system privileges.

In this example, the Group ID of *admin* is selected to be updated.

USERS AND GROUPS

User/Group Privileges Update Groups Group Members Group Admin

Update Privileges and Source Access Help

Enter the User ID or Group ID you wish to update

Or select the Group ID you wish to update

admin
groupa
groupb
groupc



Training

Administration

- System Status
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User/Group Privileges continued

The form displays a list of privileges for the user/group that may be added or removed.

Under Source Access, a list of accessible gatekeepers and their associated backside sources is displayed. The administrator can change the access settings for the given user or group, to each remote gatekeeper and all listed sources.

Privileges for Group: admin		
Admin Privileges :	No	<input type="checkbox"/> Add Access
ISSO Privileges :	No	<input type="checkbox"/> Add Access
Producer @ IPA 1.2.3 at Moon Via Neptune Baseline	No	<input type="checkbox"/> Add Access

Source Access for Group: admin	
BSWD 2.0 Baseline Neptune Gatekeeper	(Assigned Gatekeeper)
IPA 1.2.3 at Moon Via Neptune Baseline	<input type="checkbox"/> Add Access
5D at USAFE-RAMS via Neptune	<input type="checkbox"/> Add Access
Space Database Source	<input type="checkbox"/> Add Access
sun Gatekeeper	<input type="checkbox"/> Add Access



Administration

- System Status
- Users and Groups

The purpose of *Update Groups* is to allow the administrator to add/remove a given user/group to/from having access to certain system privileges.

In this example, the user input the Group ID *testuser* to be updated.

USERS AND GROUPS

User/Group Privileges Update Groups Group Members Group Admin

Update Groups

Enter the User ID or Group ID you wish to update
testuse

Or select the Group ID you wish to update

NO SELECTION
groupa
groupb
groupc
testers

Execute Reset



Training

Administration

- System Status
- Users and Groups

Update Groups presents a list of groups that can be used to update the list of groups to which the given user or group belongs. The names of all Broadsword groups are displayed along with a checkbox allowing the given user or group to be added or deleted to/from the list of groups to which the given user or group currently belongs.

Although groups may be added to other groups, a group may not be a member of itself through recursive membership in other

USERS AND GROUPS

User/Group Privileges Update Groups Group Members Group Admin

Update Groups Help

Enter the User ID or Group ID you wish to update
testuser

Or select the Group ID you wish to update
NO SELECTION
admin
groupa
groupb
groupc

Update Groups for Group - testuser Help

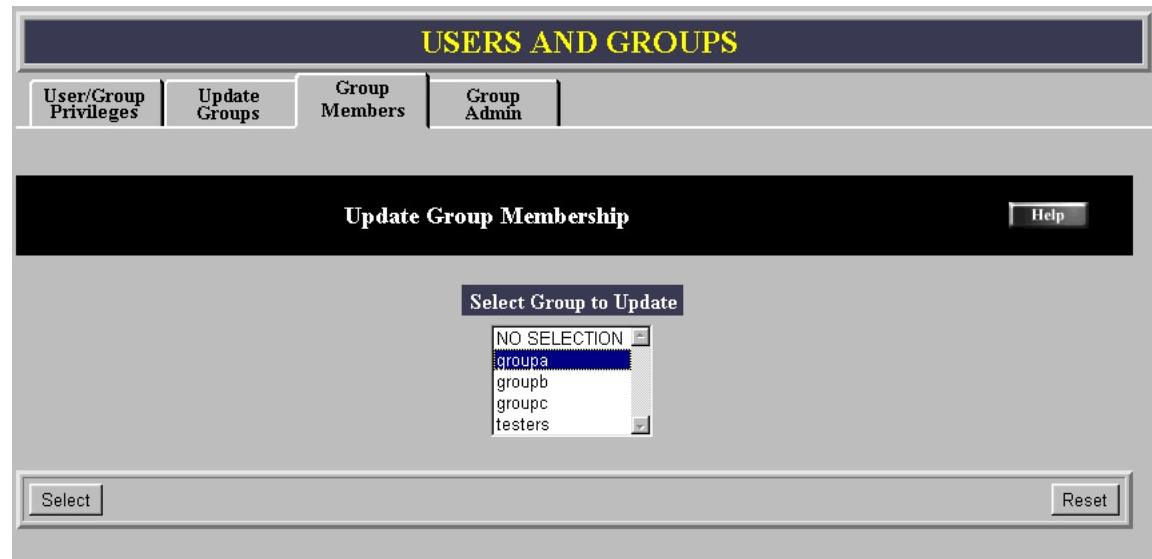
Group Name	Add or Delete
<u>admin</u>	<input type="checkbox"/> Add Group
<u>groupa</u>	<input type="checkbox"/> Add Group
<u>groupb</u>	<input type="checkbox"/> Add Group
<u>groupc</u>	<input type="checkbox"/> Add Group
<u>testers</u>	<input type="checkbox"/> Add Group

Execute Reset

Administration

- System Status
- Users and Groups

The purpose of *Group Members* is to allow the administrator to update the membership in a group by adding new members and deleting existing members.





Training

Administration

- System Status
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*Group Members
continued*

Once a group is selected to be updated the “Add Group Members” and “Delete Group Members” form appears.

Under Add Group Members, the administrator may input in the text area a user or group id to be added to the selected group.

Under Delete Group Members, the administrator may check the user or group to be removed from the selected

USERS AND GROUPS

User/Group Privileges Update Groups Group Members Group Admin

Update Group Membership Help

Select Group to Update

NO SELECTION

groupa
groupb
groupc
testers

Add Group Members - Group: groupa Help

Enter the User ID or Group ID you wish to add to the groupa group

Delete Group Members - Group: groupa Help

User or Group Name: groupc Check to Delete: Remove Group

Execute Reset



Administration

- System Status
- Users and Groups

Group Admin provides the system administrator the capability to add and delete groups.

A single Broadsword group can be added with each execution of this form. Add Group can be used simultaneously with the Group Admin Delete Groups function.

Broadsword group names are not allowed by Broadsword to be the same as Unix usernames. The system administrator must be careful when adding Unix users to the system to assure that Unix user ids do not conflict with Broadsword group ids.

USERS AND GROUPS

User/Group Privileges Update Groups Group Members Group Admin

Group Administration - Add Group Help

Enter the Group ID you wish to add:

Group Administration - Delete Groups Help

Group Name	Check to Delete	Members Affected
admin	<input type="checkbox"/> 0 members	0 users and 0 groups
groupa	<input type="checkbox"/> 1 member	0 users and 1 group
groupb	<input type="checkbox"/> 1 member	0 users and 1 group
groupc	<input type="checkbox"/> 0 members	0 users and 0 groups
testers	<input type="checkbox"/> 5 members	5 users and 0 groups

Execute Reset

Administration

• System Status

Daemon Status

The purpose of this section is to show the administrator the status of the processes that are needed to run the current Broadsword port, identify possible problems and suggest solutions to these problems. The image to the right contains a sample Daemon Status screen in which all of the daemons are running.

Name of the daemon process.

Process ID of the corresponding daemon

Status of the corresponding daemon process.

Daemon Status

Daemon Name	Process ID	Status
conan	8806	running
gatekeeper	8807	running
gatekeeperftp	6210	running
gatekeepermrs	6215	running
gatekeepermssl	6220	running
jwacron	6225	running
midb_plugin	6234	running
aodb_plugin	6243	running
wx_plugin	6254	running
5d_plugin	6263	running
ipl_plugin	6274	running
intelink_plugin	6281	running
meped_plugin	6290	running

Update Display

The process table should contain information on each of the mandatory processes. Also, any local plugins should also appear in the process table, if they were configured by the administrator. This is a static display. Click on the Update Display button for most current status

Administration

• System Status



Queue Maintenance

The purpose of this section is to allow the administrator to perform periodic maintenance on or trouble shoot problems related to the state of the message queue that effects the current Broadsword port. The message queue shows the message traffic that occurs between the session manager (Conan) and client processes (cgi-bins).

Message queue access modes are nine characters interpreted as three sets of three bits each.

Login name of the owner of the message queue.

Number of bytes in messages currently outstanding on the message queue.

Number of messages currently outstanding on the message queue.

Maximum number of bytes allowed in messages outstanding on the message queue.

Process ID of the last process to send a message to the queue.

Identifier for the message queue.

Queue ID	Access Modes	Owner	Current Bytes	Current # of Messages	Max Bytes	Last Pid to Send	Last Pid to Receive
251	rw-rw-rw-	root	133	1	4096	9012	9111

Help

Update Display

Pop Message

Updates message queue table display with the latest information about the queue.

Releases a stuck message from the queue starting with the oldest message. Successive clicks of this button releases the next message in the queue.

Process ID of the last process to receive a message from the queue.

Administration

- System Status

**Queue Maintenance**

Problems that may be related to the state of the message queue and possible solutions to these problems are listed in the table to the right.

Summary of Potential Problems/Solutions

Problem Condition	Possible Solution
A user cannot log into Broadsword or logins are taking an unusually long time.	If the administrator cannot log into the Broadsword session manager, conan may not be running. At the unix level check to see if the process conan is running. If conan is not running, start it up by typing /opt/bswd<version_number>/bin/startconan. If conan is running, follow the instructions in the next problem solution.
Response time is unusually long after clicking any action button -OR- Get no response after clicking any action button	Messages may be stuck on the message queue or the Current Bytes on the queue may have exceeded the Max Bytes . Check for this by clicking the " Update Display " button. If the Current Bytes and Current #of Messages are greater than zero and these entries do not go down after clicking the " Update Display " button several times, waiting a few seconds between tries, then messages are stuck on the queue. Release stuck messages from the queue by clicking the " Pop Message " button. Upon clicking the " Pop Message " button, information on the message that was removed from the queue will appear in a table (see the "Pop Message Info" section). Try popping all the stuck messages from the queue and see if the problem goes away. If the problem remains contact Technical Assistance, which is identified on the "support" screen, and refer to the " Pop Message Info " table when discussing the problem.

Administration

- System Status

**Queue Maintenance**

The “Summary of Messages” table contains three types of information on the message that was popped from the message queue after clicking the “Pop Message” button.

A description of these information types follows in the table to the right.

Summary of Messages

Information Type	Description
Receiving Process: OR Pid of Receiving Process:	Identifies the process that was to receive the message appearing in the queue. VALID VALUES: conan for Receiving Process , process id of client process for Pid of Receiving Process
Command:	The command that initiated the message that was put on the queue by the sending process. VALID VALUES (conan): Server Response, Server Administration. VALID VALUES (client processes): User Login, Save Data Set, Retrieve Data Set, Save User Record to File, Retrieve User Record, Update User Record, User Logout, Make Query, Update User's Preferences, Pull Product, Update E-mail Notification Profiles, Remove Data Set, Update Data Set, E-mail Notification Query, Update Map Data, Failed Login, Message Queue Initialization Failed, Send Message Failed, Receive Message Failed, No Login, User's Session Folder not Found, User's Preferences Folder not Found, User Record not Found, User's Preferences Data not Found, Bad Query Status, Unknown Command.
Message:	The message that was put on the queue by the sending process. If the sending process was conan, the message is the outcome of a request performed by conan. If the sending process was a client process, the message is information needed by conan to perform a request of the client process.



Administration

• System Status



Set Debug Flags

The purpose of this section is to allow the administrator to set or clear debug flags prior to viewing the Conan Log File.

The *Set Debug Flags* screen should be used when debugging a problem with the assistance of a Broadsword technical support person

Technical Assistance would instruct the administrator to set

Checkbox for selecting the debug flag.

Debug	Flag Name
<input type="checkbox"/>	AutoLog
<input type="checkbox"/>	BNF
<input checked="" type="checkbox"/>	Comm
<input type="checkbox"/>	Config
<input type="checkbox"/>	Connect
<input type="checkbox"/>	CleanUp
<hr/>	<hr/>
<input type="checkbox"/>	Scrm
<input checked="" type="checkbox"/>	Server
<input type="checkbox"/>	SesMngr
<input type="checkbox"/>	UserAdmin

Name of debug flag.

Used to view the Conan Log File

[View Conan Log File](#)

Apply the settings selected in the Debug column.

Selects all items in the Debug column and automatically applies these changes.

Help

Reset

Toggle All On

Toggle All Off

Returns the settings in the Debug column to their previously applied values and automatically applies these changes.

Deselects all items in the Debug column and automatically applies these changes.

Administration

• System Status



Sys/Log Info

The purpose of this section is to allow the administrator to monitor and/or free up disk space due to log files that Broadsword effects. Through the System and Log Info screen the administrator can select log files to be purged and monitor disk usage information on the file system where the root directory for the client logs is:

In this example, the Broadsword port
/opt/bswd2.0/client.

System and Log Info

To purge one or more log files, select the log files to be purged and press the "Purge Log Files" button located below. Refer to the table immediately above the button bar for information on disk usage for the file system on which the client resides.

Size of the log file
Logs the automated processes (i.e., profiles, system usage) and the errors created by these processes.
Purges the log file(s) selected in the Select column, thus freeing disk space.

Name of log
checkbox for selecting the log file. Logs httpd error information.

Logs httpd activity information.

File System Total Kilobytes Used Available Capacity

File System	Total Kilobytes	Used	Available	Capacity
/opt/bswd2.0/client	3,946,496	1,169,408	2,777,088	30%

Update Display Purge Log Files

Displays the current location of the log files.
File system's total capacity in kilobytes.
Amount of file system's total capacity that has been used, in kilobytes.
Amount of file system's currently available capacity, in that has been used.
Percentage of file system's capacity used.

The System and Log Info screen contains two sections. The top section contains the log file information while the bottom section contains the disk usage information. The administrator should use the information from these two sections to determine if it is necessary to free up disk space due to the log files.

Administration

- System Status
- Users and Groups
- System Statistics

**Batch Jobs**

This page allows the System Administrator to view the pending or processing batch jobs that have been scheduled by the users.

Remember to check the batch jobs that are running before taking down the system to do maintenance.

Time & Date the query is to be process

Unique ID number assigned for each batch process

Batch Jobs							Help
Line	User	DATE	Status	Job ID	Query Name	Query	
1	hamelt	1800 May 05 1999	Pending	925927200.a	cc_iz	TGT.CTRYCD = "IZ"	

User Account Name

States the status specified of either pending or processing

User

Query specifics



Administration

- System Status
- Users and Groups
- System Statistics



Gatekeeper

This screen will allow the System Administrator to see which of the sources are being queried, in what order of frequency, and the load on each of the sources.

Gatekeeper - Top Data Sources

Help

Top 10 Sources	Data Source	Number of Queries	Date of Last Query
1	IPL 1.0 at Sun via Neptune	2678	1999 May 05, 17:30:14
2	IPA 1.2.3 at Moon Via Neptune Baseline	2543	1999 May 05, 13:30:18
3	IPL 1.0 at Atlas via Neptune2.0	2253	1999 May 05, 17:07:06
4	5D at Neptune via Neptune2.0	1859	1999 May 05, 17:32:37
5	Keymaster Test 5D	909	1999 May 05, 17:30:21
6	Source Unk	246	1999 Feb 11, 19:02:05
7	IPL20@sun.bswd	204	1999 Apr 20, 12:49:33
8	Source Unk	174	1999 Apr 20, 18:26:06
9	Air Force Weather via Neptune	165	1999 Apr 22, 19:34:29
10	Source Unk	155	1999 Apr 20, 16:20:02



Administration

- System Status
- Users and Groups
- System Statistics



Gatekeeper

Gatekeeper Stats (Cont.)

This screen will allow the System Administrator to see the top 10 requested products and the number of times it has been requested.

Gatekeeper - Top Requests

Help

Top 10 requests	Product Accessid	Product Source	Number of requests	Date of Last Request
1	IPA_sun_31141329ZMar99_270130	IPL 1.0 at Sun via Sun	10	1999 Apr 29, 13:58:24
2	IPA_sun_31140654ZMar99_294729	IPL 1.0 at Sun via Sun	10	1999 Apr 29, 13:58:32
3	IPA_atlas_27172848ZApr99_406504	IPL 1.0 at Atlas via Sun	10	1999 Apr 29, 19:56:28
4	IPA_sun_09163936ZJul97_863473	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:00:41
5	IPA_sun_09163821ZJul97_555098	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:00:49
6	IPA_sun_09163636ZJul97_227431	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:00:58
7	IPA_sun_09163510ZJul97_898567	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:01:06
8	IPA_sun_09163315ZJul97_578956	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:01:14
9	IPA_sun_09161205ZJul97_868883	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:01:31
10	IPA_atlas_27172938ZApr99_406504	IPL 1.0 at Atlas via Sun	9	1999 Apr 29, 19:54:28

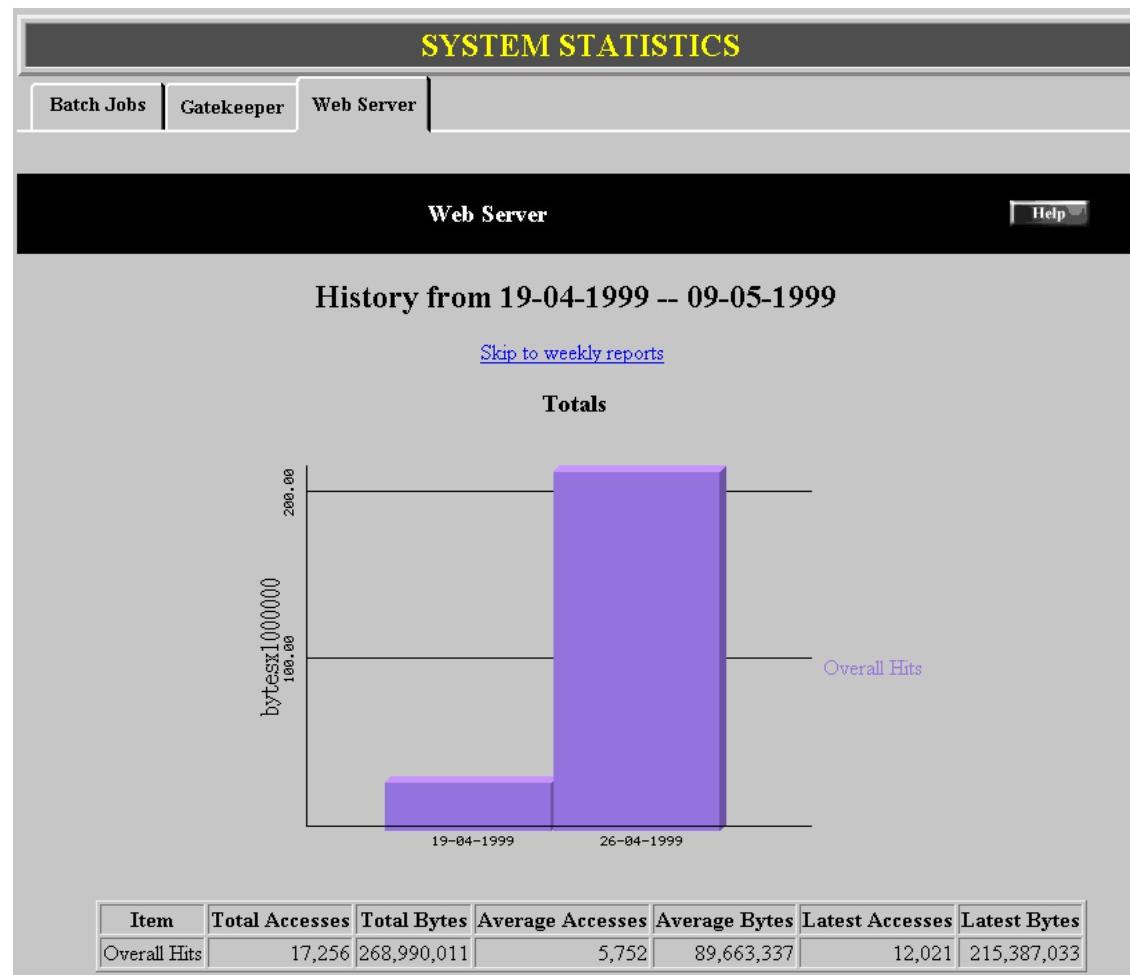
Administration

- System Status
- Users and Groups
- System Statistics



Web Server

Web server statistics helps you determine the true impact on your web server; by measuring the popularity of Web documents, as well as identifying the sites that access your server most often.





Administration (from the command line)

Instructions on how to start the Broadsword processes.

Remember to do the input from the console, must be user root, system must be xhosted, and do not logoff of the system until process is complete.

To Start the System

1. To **start** the processes, do the following at the UNIX command line:

```
cd /opt/bswd2.0/scripts <cr>  
./startserver <cr>
```

and press **<cr> twice** to take the defaults to startup all server processes.

Administration (from the command line)

Instructions on how to stop the Broadsword processes.

To Stop the System

To **stop** the processes, do the following at the UNIX command line:

```
cd /opt/bswd2.0/scripts <cr>  
./stopserver <cr>
```

and press **<cr> twice** to take the defaults to stop all server processes.

** Note this process also **stops** Sybase. If Sybase is shared with IPL you may not want to do this.

Administration (from the command line)

Instructions on how to check the Broadsword processes.

To Check the System

To **check** the Server processes, do the following at the UNIX command line:

```
cd /opt/bswd2.0/scripts <cr>  
./whoserver <cr>
```